

Objective: Try to get your plane to fly a long distance.

1. With a partner design and make a paper airplane.
2. Stand behind the start line and send your paper airplane flying. Keep track of the time that it is in the air and measure the distance that the airplane traveled. Record this data on your data table and calculate the individual speed.
3. Make modifications to your paper airplane and try flying your airplane again. Repeat this for a total of three trials.
4. When finished with all three trials calculate the average speed for your airplane by dividing the total distance by the total time.

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| --- | --- | --- | --- | --- |
| Trial | Distance (m) | Time (sec) | Speed (m/s) | What made your airplane successful or not successful? |
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1. Average Speed = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Question 1: What modifications did you do to the airplane to get it to fly the farthest?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_